

Low Height Narrow Delta Antenna for the 80, 40, 20 and 15- meter Band

The publication is devoted to the memory UR0GT.

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Below described Low Height Narrow Delta Antenna for the 80, 40, 20 and 15- meter Band. The Antenna was simulated by UR0GT for DE7RAO, for his defined conditions of possibility for antenna placement. However the antenna design should be interesting for those amateur who has tied conditions for antenna installation or for amateurs who participated in field day.

Figure 1 shows design of the antenna. Antenna simulated for height 7- meter above the ground. Antenna simulated for bare wire in diameter 2- mm. If it would be used wire in plastic insulation the antenna length should be decreased to 1.5 percent or near 1.5- meter.

The antenna has one long length that may be placed across backyard to nearly tree. Then two short sides may be attached to fence or to small mast or tree.

Antenna maybe fed through ATU by 50- Ohm coaxial cable or two wire line. However most of transceivers with internal ATU may match the antenna directly.

Antenna has resonances at 80, 40, 20 and 15- meter bands. One side of the antenna made by two wires. It allows increase input impedance of the antenna at the 80- meter Band.

Antenna may be rescaled to higher bands. However the antenna when placed at low height should be simulated with NEC for MMANA. It is allowed to get strictly data for length of antenna wires and for input impedance of the antenna

The MMANA model of the Low Height Delta Antenna may be loaded: http://www.antentop.org/020/narrow_delta_ur0gt_020.htm

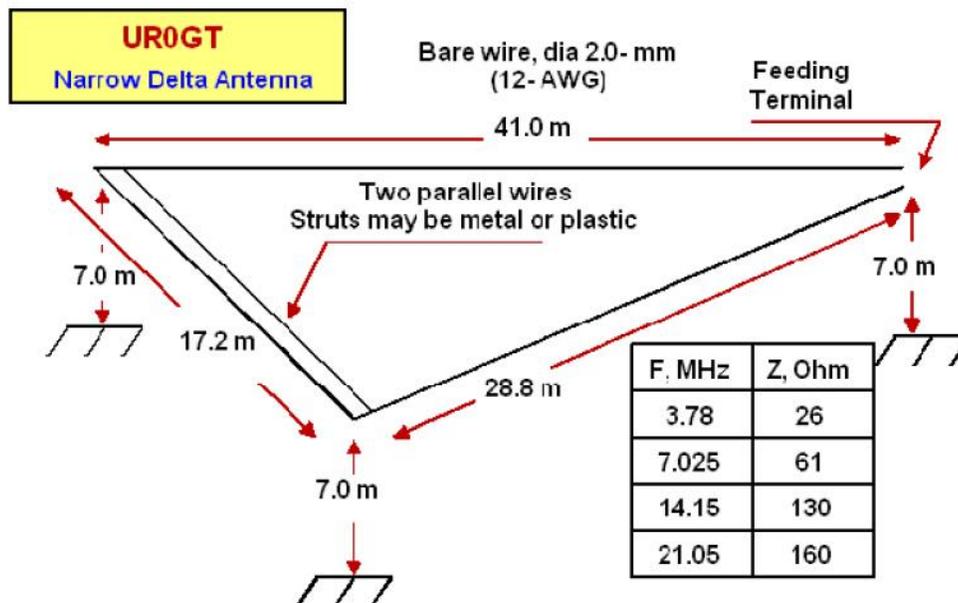


Figure 1 Low Height Narrow Delta Antenna for the 80, 40, 20 and 15- meter Band